

The Commonwealth of Massachusetts  
Executive Office of Health and Human Services  
Department of Public Health  
William A. Hinton State Laboratory Institute  
305 South Street, Jamaica Plain, MA 02130

DEVAL L. PATRICK  
GOVERNOR

TIMOTHY P. MURRAY  
LIEUTENANT GOVERNOR

JUDYANN BIGBY, MD  
SECRETARY

JOHN AUERBACH  
COMMISSIONER

1/31/11

Susan Dolhun  
Assistant District Attorney, Essex County

Dear Ms. Dolhun,

Enclosed is the information you requested in regards to Commonwealth vs. [REDACTED]

[REDACTED] Included are copies of the following:

1. Curriculum Vitae for Kate Corbett and Della Saunders.
2. Drug Analysis Laboratory Receipt.
3. Control Card with analytical results for sample # [REDACTED]
4. Analysis sheet with chemist's hand notations and test results.
5. GC/Mass Spectral analytical data for sample # [REDACTED]

GC/MS testing was performed by Della Saunders. All other analyses were performed by Kate Corbett. If you have any questions about these materials, please call me at the number below.

Sincerely,  
  
Kate Corbett  
Chemist II  
Drug Analysis Lab  
Jamaica Plain, MA. 02130  
(617) 983-6632

cc: DCS, CBS

# Curriculum Vitae

Kate A. Corbett

## Education

### **Bachelor of Science Degree, CHEMISTRY May 2003**

MERRIMACK COLLEGE

Coursework included: Organic Chemistry, Inorganic Chemistry, Quantitative Analysis, Instrumental Analysis, Physical Chemistry, Physics, Calculus

---

## Employment

### **Chemist II State Laboratory Institute (March 2008-Present)**

Massachusetts Department of Public Health

Drug Analysis Laboratory

- Responsible for the identification of substance and trafficking substances to determine violation of the Massachusetts drug laws
- Responsible for the identification of pharmaceuticals to determine violation of the Massachusetts drug laws
- Operate analytical instrumentation, microscopes and balances for forensic drug analysis

### **Chemist I State Laboratory Institute (2005-March 2008)**

Massachusetts Department of Public Health

Drug Analysis Laboratory

- Responsible for the identification of substance to determine violation of the Massachusetts drug laws
- Operate analytical instrumentation for the purpose of performing forensic drug analysis
- Successfully completed an eight week training course in the analysis of drugs conducted by senior staff of the Department of Public Health, Drug Analysis Laboratory
- Appointed an assistant analyst for the Department of Public Health, Drug Analysis Laboratory in 2005.

### **Research Associate (September 2003 – August 2005)**

SENSOR TECHNOLOGIES, INC - Shrewsbury, MA

- Prepared chemistries used in making sensor beads
- Generated and examined sensors employing fluorescence spectroscopy
- Performed protein, dye and sugar assays using UV/VIS spectrophotometry
- Carried out titrations on ricin using fluorescence correlation spectroscopy
- Statistical analysis of experimental data

### **Intern (March 2003 – August 2003)**

MASSACHUSETTS STATE POLICE CRIME LABORATORY - Sudbury, MA

- Assisted in the gathering of case files to fulfill the National Institute of Justice's No Suspect Backlog Reduction Grant
- Observed in the Evidence, Criminalistics, DNA, Drug, Trace, Toxicology, and Bomb/Arson Units

## Curriculum Vitae

Della Saunders

### Education:

Boston University Boston, MA. Bachelors of Arts in Chemistry 1982

### Experience:

1985-present: Currently Chemist III Massachusetts Department of Public Health Drug Analysis Laboratory at State Laboratory Institute Boston, MA. Responsible for analyzing unknown substances submitted by Massachusetts law enforcement agencies; operating, maintaining, and interpreting data from analytical equipment (analytical balance, microscope, gas chromatogram, ultraviolet spectrometer, infrared spectrometer, gas chromatogram/mass spectrometer); training junior level chemists; providing expert testimony to local, state, and federal courts in the Commonwealth of Massachusetts.

1984-1985: Laboratory Technician in the Media Laboratory at State Laboratory Institute Boston, MA. Responsible for making chemical reagents and media plates; operating and maintaining laboratory equipment (autoclave, pH meter, ultra-violet hood), and collecting safety data for laboratory protocols.

### Training:

1985: Six week training with Senior Staff at Massachusetts Department of Public Health (MDPH) Drug Analysis Laboratory Boston, MA. Appointed Assistant Analyst MDPH

1987: One week training course in drug analysis given by the Federal Drug Enforcement Agency (DEA) McLean, V.A.

1992: Training in Gas Chromatograph/Mass Spectroscopy (GC/MS) Hewlett Packard (Agilent)

1996: Training in Fourier Transform Infra-Red Spectroscopy ETA (Analect)

2001: Expert Witness Workshop National Laboratory Training network Quality Assurance/Quality Control Training (MDPH)

2002: Techniques of Supervision Training (MDPH)

1999: Notary Public Commonwealth of Massachusetts



No. [REDACTED]

City: Lynn Police Dept.

Officer: Detective MARK RICHMOND

Def: [REDACTED]

Amount:

No. Cont: 1 Cont: pb

Date Analyzed: DEC 14 2010

Subst: SUB

Date Rec'd: 09/03/2010

No. Analyzed:

Net Weight: 0.22g

# Tests:

10AC

Prelim: Cocaine

Findings:

COCAINE t2 POF

# DRUG POWDER ANALYSIS FORM

SAMPLE # XXXXXXXXXXAGENCY LynnANALYST KACNo. of samples tested: 1

Evidence Wt.

OK**PHYSICAL DESCRIPTION:**

1 pb containing white  
powder

Gross Wt ( ): 0.3273gGross Wt ( ): Pkg. Wt: 0.1066gNet Wt: 0.2207g**PRELIMINARY TESTS**Spot TestsCobalt Thiocyanate ( ) +Marquis -Froehde's -Mecke's -Microcrystalline TestsGold Chloride -TLTA ( ) +OTHER TESTS

---

---

---

**PRELIMINARY TEST RESULTS**RESULTS Cocaine  
DATE 12/9/10GC/MS CONFIRMATORY TESTRESULTS Cocaine  
MS OPERATOR DCS  
DATE 12/14/10

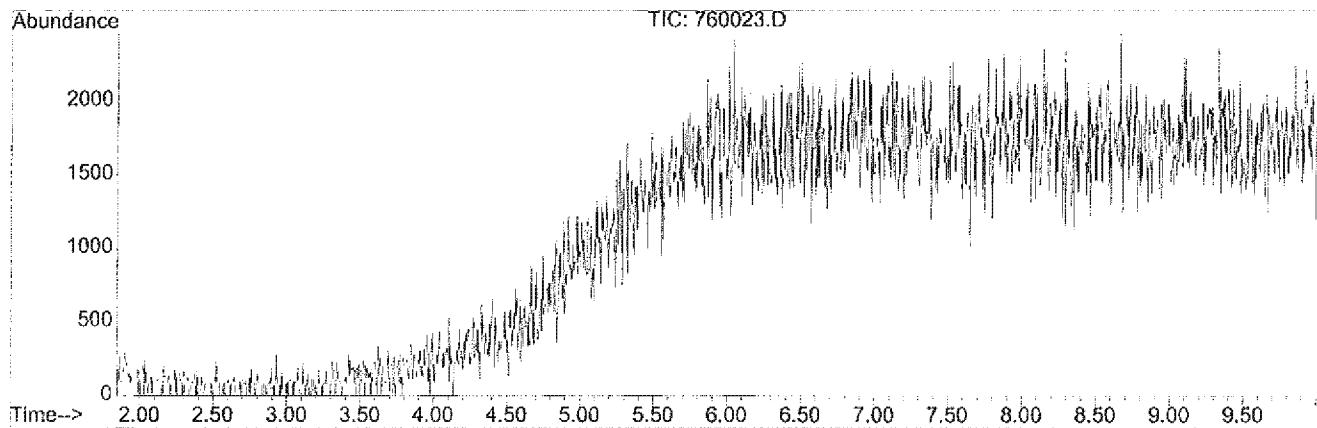
# Area Percent / Library Search Report

---

Information from Data File:

File Name : F:\Q4-2010\SYSTEM4\12\_10\_10\760023.D  
Operator : DCS  
Date Acquired : 10 Dec 2010 16:17  
Sample Name : BLANK  
Submitted by :  
Vial Number : 1  
AcquisitionMeth: DRUGS  
Integrator : RTE

---



| Ret. Time | Area | Area % | Ratio % |
|-----------|------|--------|---------|
|-----------|------|--------|---------|

---

\*\*\*NO INTEGRATED PEAKS\*\*\*

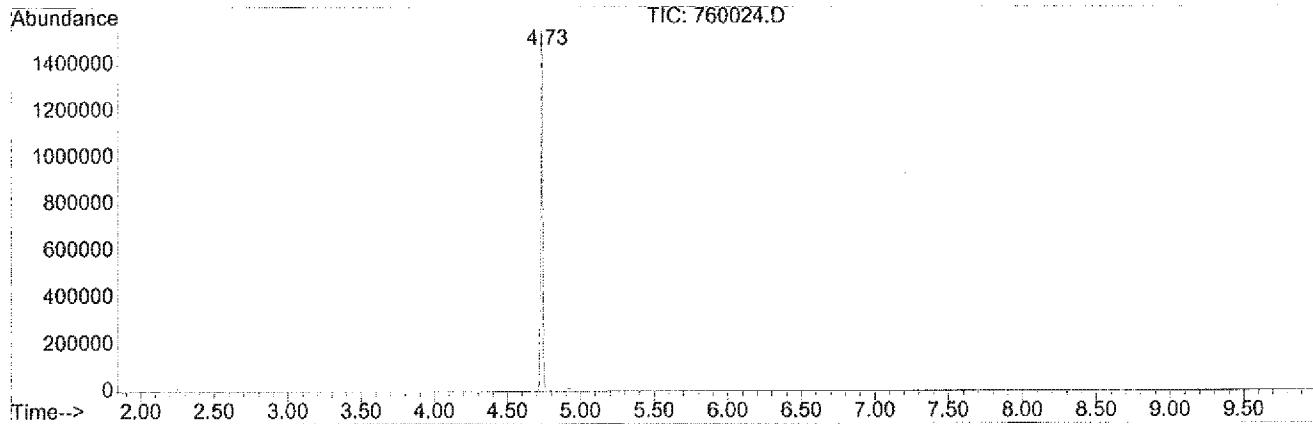
# Area Percent / Library Search Report

---

Information from Data File:

File Name : F:\Q4-2010\SYSTEM4\12\_10\_10\760024.D  
Operator : DCS  
Date Acquired : 10 Dec 2010 16:31  
Sample Name : COCAINE STANDARD  
Submitted by :  
Vial Number : 24  
AcquisitionMeth: DRUGS  
Integrator : RTE

---



---

| Ret. Time | Area    | Area % | Ratio % |
|-----------|---------|--------|---------|
| 4.731     | 1508229 | 100.00 | 100.00  |

---

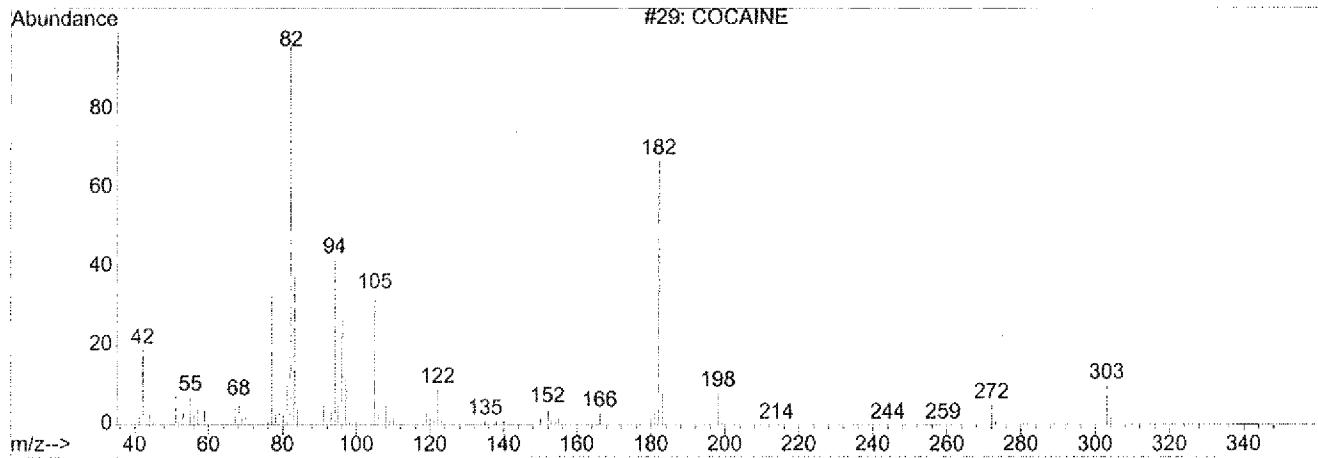
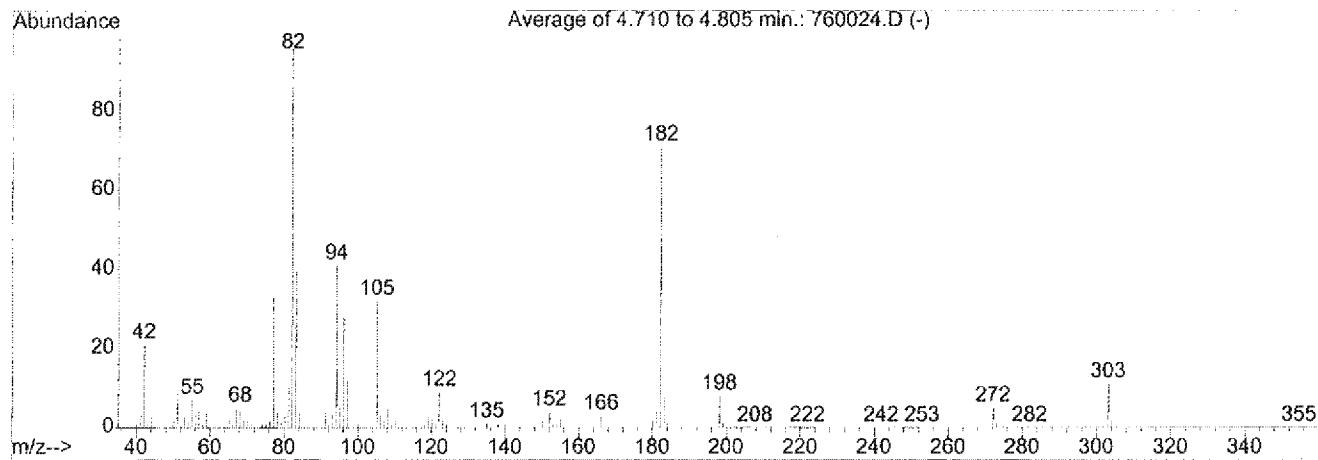
# Area Percent / Library Search Report

**Information from Data File:**

File Name : F:\Q4-2010\SYSTEM4\12\_10\_10\760024.D  
Operator : DCS  
Date Acquired : 10 Dec 2010 16:31  
Sample Name : COCAINE STANDARD  
Submitted by :  
Vial Number : 24  
AcquisitionMeth: DRUGS  
Integrator : RTE

Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 80  
C:\DATABASE\PMW\_TOX2.L Minimum Quality: 80  
C:\DATABASE\NIST98.L

| PK# | RT   | Library/ID                   | CAS#        | Qual |
|-----|------|------------------------------|-------------|------|
| 1   | 4.73 | C:\DATABASE\SLI.L<br>COCAINE | 000050-36-2 | 99   |



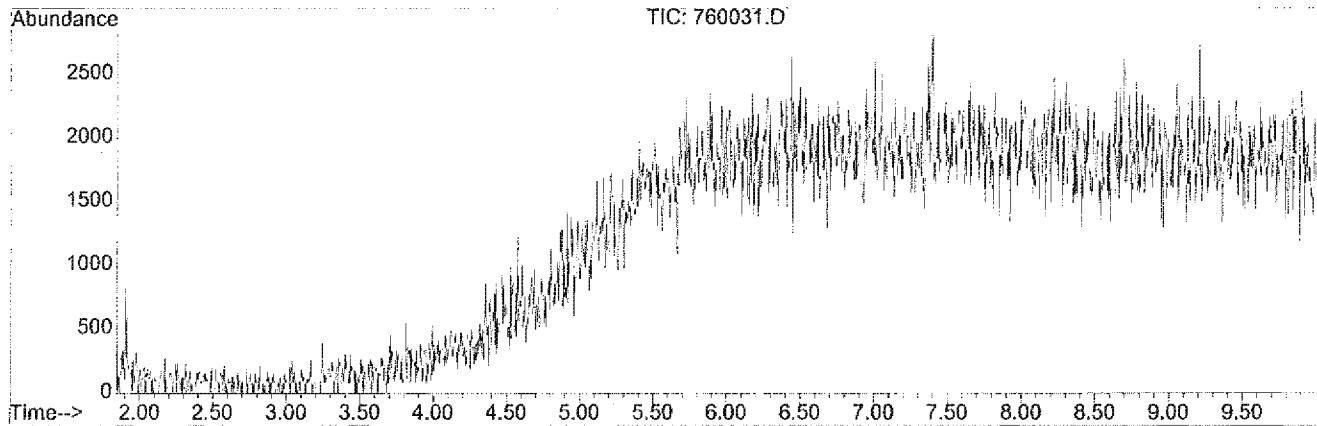
# Area Percent / Library Search Report

---

Information from Data File:

File Name : F:\Q4-2010\SYSTEM4\12\_10\_10\760031.D  
Operator : DCS  
Date Acquired : 10 Dec 2010 18:05  
Sample Name : BLANK  
Submitted by : KAC  
Vial Number : 1  
AcquisitionMeth: DRUGS  
Integrator : RTE

---



| Ret. Time | Area | Area % | Ratio % |
|-----------|------|--------|---------|
|-----------|------|--------|---------|

---

\*\*\*NO INTEGRATED PEAKS\*\*\*

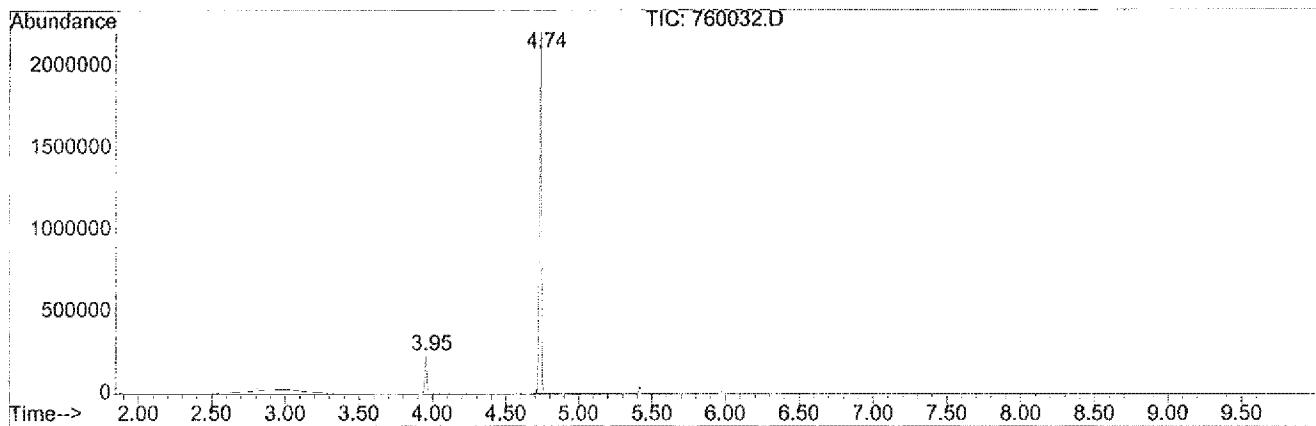
# Area Percent / Library Search Report

---

Information from Data File:

File Name : F:\Q4-2010\SYSTEM4\12\_10\_10\760032.D  
Operator : DCS  
Date Acquired : 10 Dec 2010 18:18  
Sample Name : [REDACTED]  
Submitted by : KAC  
Vial Number : 32  
AcquisitionMeth: DRUGS  
Integrator : RTE

---



---

| Ret. Time | Area    | Area % | Ratio % |
|-----------|---------|--------|---------|
| 3.953     | 240702  | 9.86   | 10.94   |
| 4.736     | 2200214 | 90.14  | 100.00  |

---

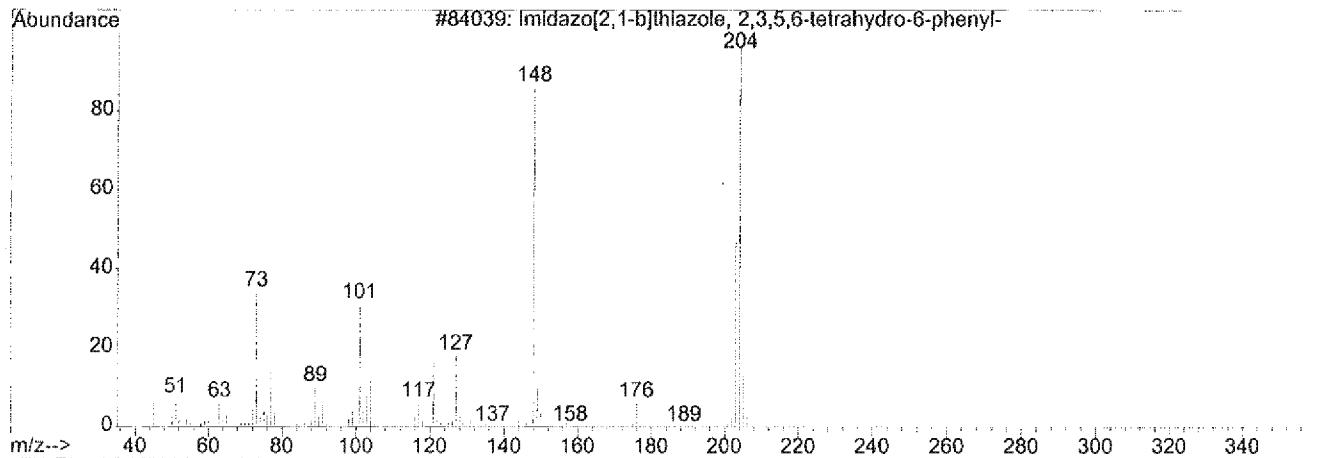
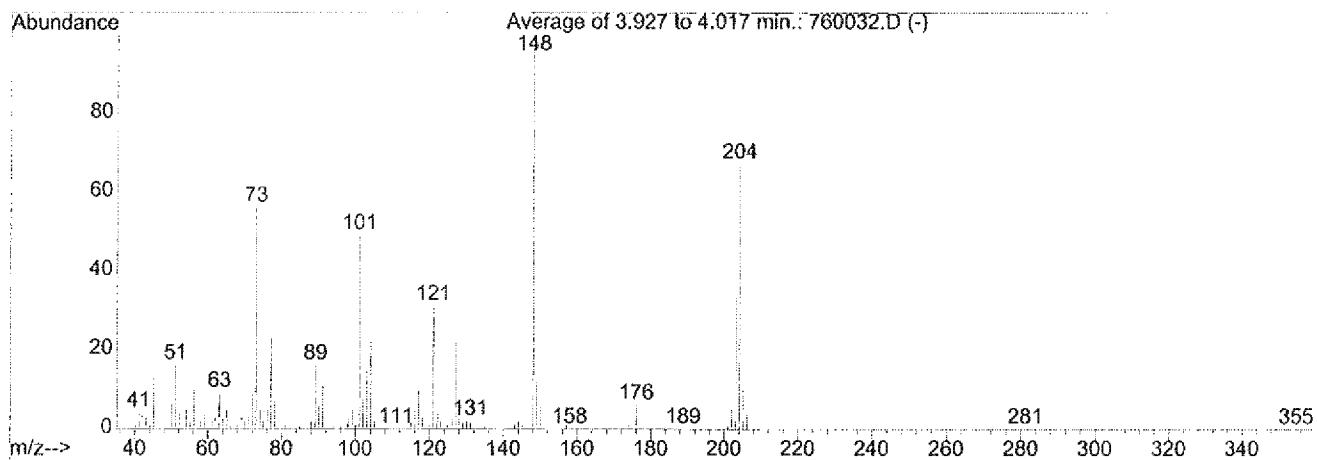
# Area Percent / Library Search Report

**Information from Data File:**

File Name : F:\Q4-2010\SYSTEM4\12\_10\_10\760032.D  
Operator : DCS  
Date Acquired : 10 Dec 2010 18:18  
Sample Name : XXXXXXXXXX  
Submitted by : KAC  
Vial Number : 32  
AcquisitionMeth: DRUGS  
Integrator : RTE

Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 80  
C:\DATABASE\PMW\_TOX2.L Minimum Quality: 80  
C:\DATABASE\NIST98.L

| PK# | RT   | Library/ID                          | CAS#        | Qual |
|-----|------|-------------------------------------|-------------|------|
| 1   | 3.95 | C:\DATABASE\NIST98.L                |             |      |
|     |      | Imidazo[2,1-b]thiazole, 2,3,5,6-tet | 006649-23-6 | 99   |
|     |      | Imidazo[2,1-b]thiazole, 2,3,5,6-tet | 006649-23-6 | 97   |
|     |      | Imidazo[2,1-b]thiazole, 2,3,5,6-tet | 006649-23-6 | 97   |



# Area Percent / Library Search Report

**Information from Data File:**

File Name : F:\Q4-2010\SYSTEM4\12\_10\_10\760032.D  
Operator : DCS  
Date Acquired : 10 Dec 2010 18:18  
Sample Name : XXXXXXXXXX  
Submitted by : KAC  
Vial Number : 32  
AcquisitionMeth: DRUGS  
Integrator : RTE

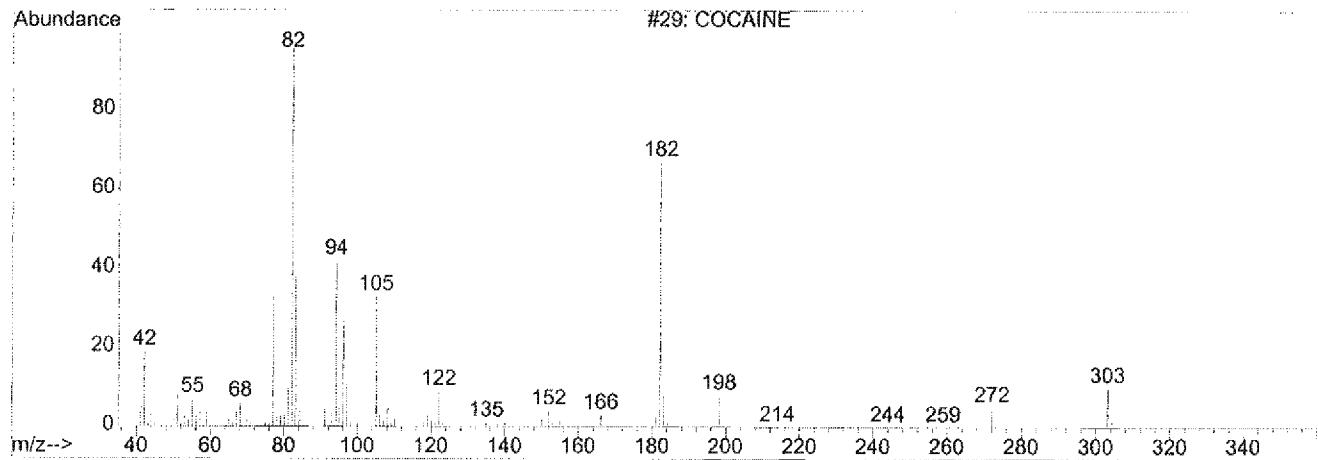
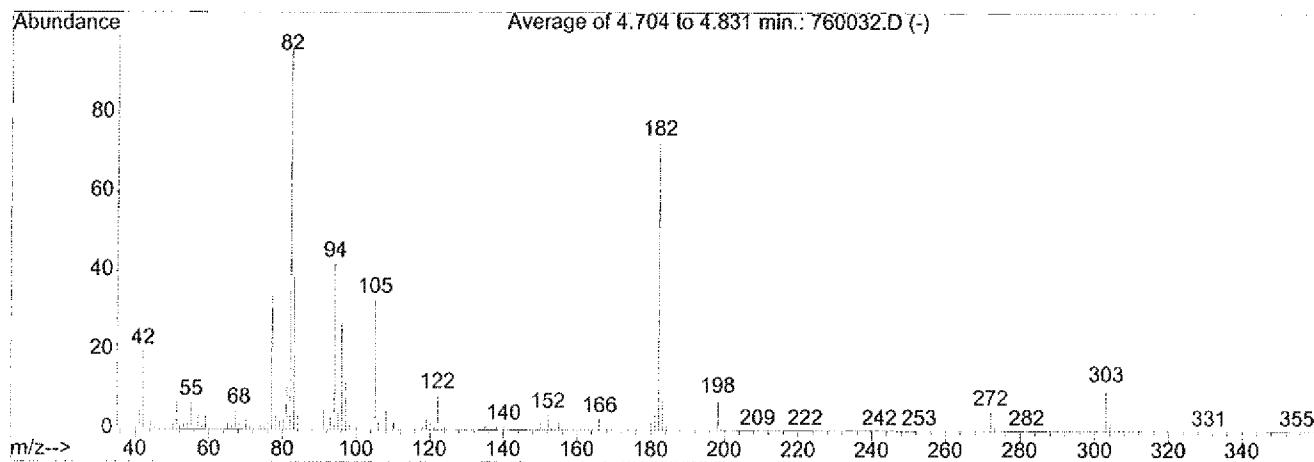
---

Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 80  
C:\DATABASE\PMW\_TOX2.L Minimum Quality: 80  
C:\DATABASE\NIST98.L

---

| PK# | RT   | Library/ID                   | CAS#        | Qual |
|-----|------|------------------------------|-------------|------|
| 2   | 4.74 | C:\DATABASE\SLI.L<br>COCAINE | 000050-36-2 | 99   |

---



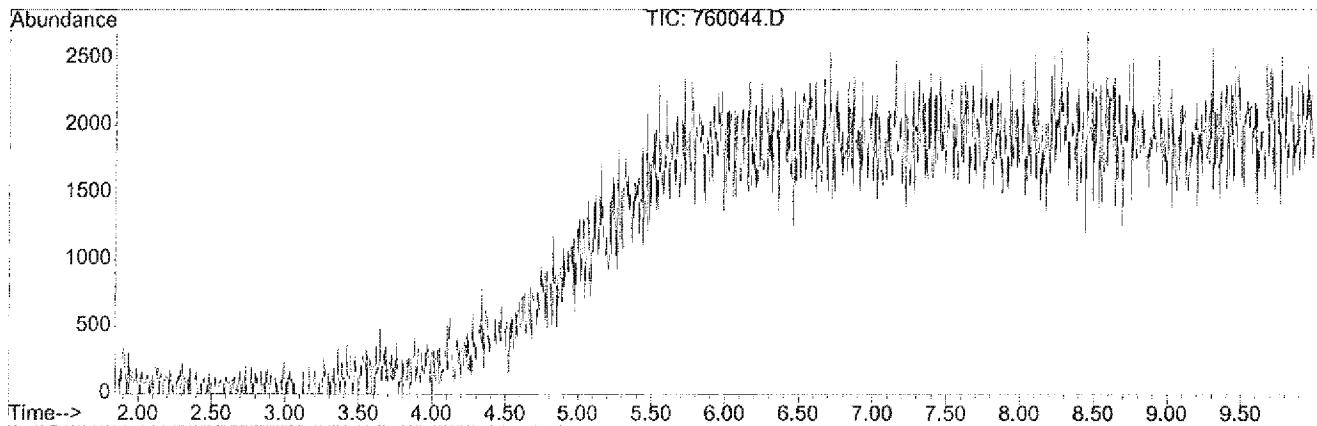
# Area Percent / Library Search Report

---

Information from Data File:

File Name : F:\Q4-2010\SYSTEM4\12\_10\_10\760044.D  
Operator : DCS  
Date Acquired : 10 Dec 2010 20:59  
Sample Name : BLANK  
Submitted by :  
Vial Number : 1  
AcquisitionMeth: DRUGS  
Integrator : RTE

---



| Ret. Time | Area | Area % | Ratio % |
|-----------|------|--------|---------|
|-----------|------|--------|---------|

---

\*\*\*NO INTEGRATED PEAKS\*\*\*

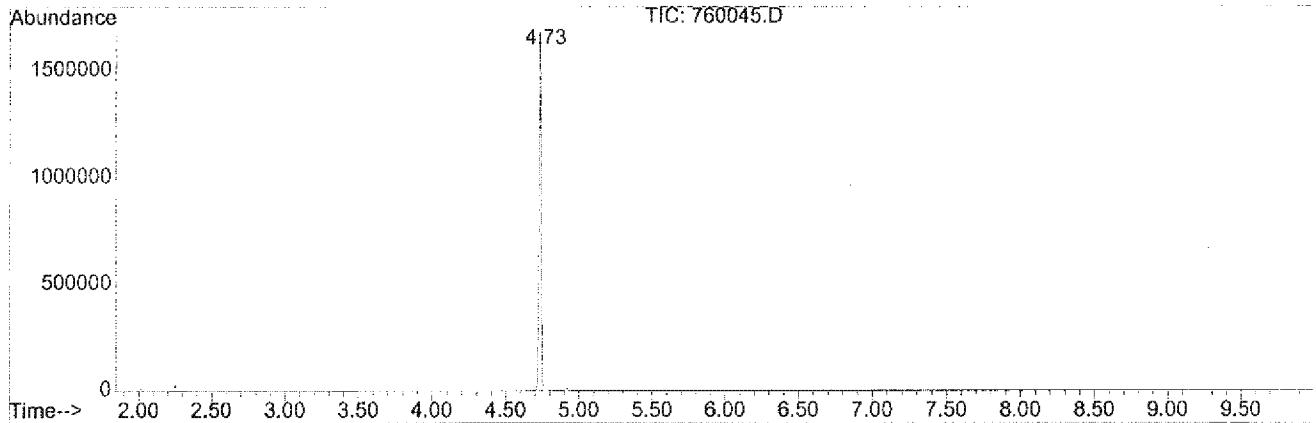
# Area Percent / Library Search Report

---

Information from Data File:

File Name : F:\Q4-2010\SYSTEM4\12\_10\_10\760045.D  
Operator : DCS  
Date Acquired : 10 Dec 2010 21:13  
Sample Name : COCAINE STANDARD  
Submitted by :  
Vial Number : 45  
AcquisitionMeth: DRUGS  
Integrator : RTE

---



| Ret. Time | Area    | Area % | Ratio % |
|-----------|---------|--------|---------|
| 4.731     | 1716099 | 100.00 | 100.00  |

---

# Area Percent / Library Search Report

---

Information from Data File:

File Name : F:\Q4-2010\SYSTEM4\12\_10\_10\760045.D  
Operator : DCS  
Date Acquired : 10 Dec 2010 21:13  
Sample Name : COCAINE STANDARD  
Submitted by :  
Vial Number : 45  
AcquisitionMeth: DRUGS  
Integrator : RTE

---

Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 80  
C:\DATABASE\PMW\_TOX2.L Minimum Quality: 80  
C:\DATABASE\NIST98.L

| PK# | RT   | Library/ID                   | CAS#        | Qual |
|-----|------|------------------------------|-------------|------|
| 1   | 4.73 | C:\DATABASE\SLI.L<br>COCAINE | 000050-36-2 | 99   |

